

## Patent Abstracts of Japan

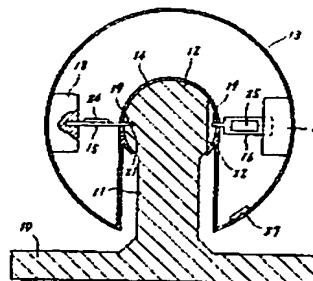
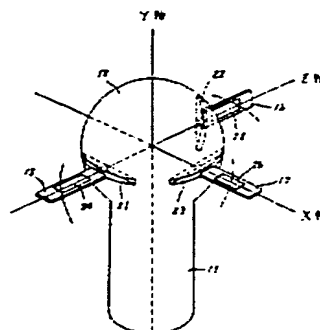
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TITLE : INPUT DEVICE FOR 3-DIMENSIONAL INFORMATION



ABSTRACT : PURPOSE: To attain input of the 3-dimensional information in a style accordant with the human sense by operating manually an operating matter to give the corresponding movement to each axis and to deform the corresponding elastic matter and at the same time obtaining the electrical output from a mechanical electric transducing element in response to the deformation of the elastic matter.

CONSTITUTION: When an operating ball 13 supported rotatably and oscillatably is rubbed, this rubbing sounds are picked up by a microphone 27. While the corresponding plate springs 15, 16 and 17 are deformed independently of each other by the rotary movements of the ball 13 performed centering on the axes X, Y and Z respectively. In other words, the springs 15~17 are attached as shown in the figure so that the freedom of the ball 13 is limited in the direction of each axis by slits 21~23 of a support ball 12. Thus the moments of those three axes applied to the ball 13 act on the springs 15~17 independently of each other.

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